

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	11/616716	US-PGPUB; USPAT	OR	ON	2007/10/15 16:23
S2	5624	(SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz silicon adj dioxide) and (K2O or "K.sub.2" or "K.sub.2O" or K2O or "K.sub.2" or "K.sub.2O" or potash or potassium adj carbonate or potassium) and (ZnO or Zn0 or zinc) and (Li2O or Li.sub.2 or ""Li.sub.2O"" or Li2O or Li.sub.2 or ""Li.sub.2O"" or Lithia or lithium) and (Bi2O3 or ""Bi.sub.2" "O.sub.3"" or ""Bi.sub.2O.sub.3"" or Bi2O3 or ""Bi.sub.2" ""O.sub.3"" or ""Bi.sub.2O.sub.3"" or bismuth or bismuth adj trioxide or bismite) and (Ta2O5 or ""Ta.sub.2" ""O.sub.5"" or ""Ta.sub.2O.sub.5"" or Ta2O5 or ""Ta.sub.2" ""O.sub.5"" or ""Ta.sub.2O.sub.5"" or tantalum) and (BaO or Ba0 or barium or baria or barium adj oxide or barium adj monoxide or barium adj protoxide or calcined adj baryta)	US-PGPUB; USPAT	OR	ON	2007/10/15 16:28

S3	682	(SiO <sub>2</sub> or "SiO.sub.2" or SiO <sub>2</sub> or "Si0.sub.2" or silica or silicon or quartz silicon adj dioxide) and (K <sub>2</sub> O or "K.sub.2" or "K.sub.2O" or K <sub>2</sub> O or "K.sub.2" or "K.sub.20" or potash or potassium adj carbonate or potassium) and (ZnO or Zn0 or zinc) and (Li <sub>2</sub> O or Li.sub.2 or ""Li.sub.2O"" or Li <sub>2</sub> O or Li.sub.2 or ""Li.sub.20"" or Lithia or lithium) and (Bi <sub>2</sub> O <sub>3</sub> or ""Bi.sub.2" "O.sub.3"" or ""Bi.sub.2O.sub.3"" or Bi <sub>2</sub> O <sub>3</sub> or ""Bi.sub.2" ""O.sub.3"" or ""Bi.sub.2O.sub.3"" or bismuth or bismuth adj trioxide or bismite) and (Ta <sub>2</sub> O <sub>5</sub> or ""Ta.sub.2" ""O.sub.5"" or ""Ta.sub.2O.sub.5"" or Ta <sub>2</sub> O <sub>5</sub> or ""Ta.sub.2" ""O.sub.5"" or ""Ta.sub.2O.sub.5"" or tantalum) and (BaO or Ba0 or barium or baria or barium adj oxide or barium adj monoxide or barium adj protoxide or calcined adj baryta) and "501".clas.	US-PGPUB; USPAT	OR	ON	2007/10/15 16:37
S4	148	(SiO <sub>2</sub> or "SiO.sub.2" or SiO <sub>2</sub> or "Si0.sub.2" or silica or silicon or quartz silicon adj dioxide) and (K <sub>2</sub> O or "K.sub.2" or "K.sub.2O" or K <sub>2</sub> O or "K.sub.2" or "K.sub.20" or potash or potassium adj carbonate or potassium) and (ZnO or Zn0 or zinc) and (Li <sub>2</sub> O or Li.sub.2 or ""Li.sub.2O"" or Li <sub>2</sub> O or Li.sub.2 or ""Li.sub.20"" or Lithia or lithium) and (Bi <sub>2</sub> O <sub>3</sub> or ""Bi.sub.2" "O.sub.3"" or ""Bi.sub.2O.sub.3"" or Bi <sub>2</sub> O <sub>3</sub> or ""Bi.sub.2" ""O.sub.3"" or ""Bi.sub.2O.sub.3"" or	US-PGPUB; USPAT	OR	ON	2007/10/15 16:41

		bismuth or bismuth adj trioxide or bismite).ab. and (Ta2O5 or ""Ta.sub.2"" ""O.sub.5"" or ""Ta.sub.2O.sub.5"" or Ta2O5 or ""Ta.sub.2"" ""O.sub.5"" or ""Ta.sub.2O.sub.5"" or tantalum) and (BaO or Ba0 or barium or baria or barium adj oxide or barium adj monoxide or barium adj protoxide or calcined adj baryta) and "501".clas.				
S5	31	(SiO2 or "SiO.sub.2" or SiO2 or "Si0.sub.2" or silica or silicon or quartz silicon adj dioxide) and (K2O or "K.sub.2" or "K.sub.2O" or K2O or "K.sub.2" or "K.sub.2O" or potash or potassium adj carbonate or potassium) and (ZnO or Zn0 or zinc) and (Li2O or "Li.sub.2" or "Li.sub.2O" or Li2O or "Li.sub.2" or "Li.sub.2O" or Lithia or lithium) and (Bi2O3 or "Bi.sub.2" adj "O.sub.3" or "Bi.sub.2O.sub.3" or Bi2O3 or "Bi.sub.2" adj "O.sub.3" or "Bi.sub.2O.sub.3" or bismuth or bismuth adj trioxide or bismite).ab. and (Ta2O5 or "Ta.sub.2" adj "O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2" adj "O.sub.5" or "Ta.sub.2O.sub.5" or tantalum) and (BaO or Ba0 or barium or baria or barium adj oxide or barium adj monoxide or barium adj protoxide or calcined adj baryta) and ""501"".clas.	US-PGPUB; USPAT	OR	ON	2007/10/15 16:51

S6	24	(SiO <sub>2</sub> or "SiO.sub.2" or SiO <sub>2</sub> or "Si0.sub.2" or silica or silicon or quartz silicon adj dioxide) and (K <sub>2</sub> O or "K.sub.2" or "K.sub.2O" or K <sub>2</sub> O or "K.sub.2" or "K.sub.2O" or potash or potassium adj carbonate or potassium) and (ZnO or Zn0 or zinc) and (Li <sub>2</sub> O or "Li.sub.2" or "Li.sub.2O" or Li <sub>2</sub> O or "Li.sub.2" or "Li.sub.2O" or Lithia or lithium) and (Bi <sub>2</sub> O <sub>3</sub> or "Bi.sub.2" adj "O.sub.3" or "Bi.sub.2O.sub.3" or Bi <sub>2</sub> O <sub>3</sub> or "Bi.sub.2" adj "O.sub.3" or "Bi.sub.2O.sub.3" or bismuth or bismuth adj trioxide or bismite).ab. and (Ta <sub>2</sub> O <sub>5</sub> or "Ta.sub.2" adj "O.sub.5" or "Ta.sub.2O.sub.5" or Ta <sub>2</sub> O <sub>5</sub> or "Ta.sub.2" adj "O.sub.5" or "Ta.sub.2O.sub.5" or tantalum) and (BaO or Ba0 or barium or baria or barium adj oxide or barium adj monoxide or barium adj protoxide or calcined adj baryta) and ""501"". clas. and lead	US-PGPUB; USPAT	OR	ON	2007/10/16 07:48
S7	3	"5391530"	US-PGPUB; USPAT	OR	ON	2007/10/16 09:56
S8	617	catalyst and nitrogen.ti. and length	US-PGPUB; USPAT	OR	ON	2007/10/16 08:28
S9	18	"5403526" "3285760" "5262043"	US-PGPUB; USPAT	OR	ON	2007/10/16 08:46
S10	3	("5403526" "3285760" "5262043").did.	US-PGPUB; USPAT	OR	ON	2007/10/16 08:53
S11	58	refractory and naphthenic adj oil	US-PGPUB; USPAT	OR	ON	2007/10/16 08:56
S12	10	refractory and napthenic adj oil	US-PGPUB; USPAT	OR	ON	2007/10/16 08:57
S13	1031	refractory and naphthenic	US-PGPUB; USPAT	OR	ON	2007/10/16 09:13
S14	921	refractory and naphthenic not vinegar	US-PGPUB; USPAT	OR	ON	2007/10/16 10:09

S15	1	"20070105987".did.	US-PGPUB; USPAT	OR	ON	2007/10/16 09:56
S16	370	refractory and naphthenic not vinegar and (binder or resin)	US-PGPUB; USPAT	OR	ON	2007/10/16 10:14
S31	1233	refractory and (naphthenic or naphtha or naphthenic or naphtha white adj spirit ligroin petroleum adj ether) not vinegar and (binder or resin) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve).ti.	US-PGPUB; USPAT	OR	ON	2007/10/16 11:08
S32	1197	refractory and (naphthenic or naphtha or naphthenic or naphtha white adj spirit ligroin petroleum adj ether) not vinegar and (binder or resin) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti.	US-PGPUB; USPAT	OR	ON	2007/10/16 11:12
S33	20	refractory.ti. and (naphthenic or naphtha or naphthenic or naphtha white adj spirit ligroin petroleum adj ether) not vinegar and (binder or resin) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti.	US-PGPUB; USPAT	OR	ON	2007/10/16 11:49

S34	9	refractory.ti. and (naphthenic or naphtha or naphthenic or naphtha white adj spirit ligroin petroleum adj ether) not vinegar and (binder or resin) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti. and "501".clas.	US-PGPUB; USPAT	OR	ON	2007/10/16 11:47
S35	36	refractory and (naphthenic or naphtha or naphthenic or naphtha white adj spirit ligroin petroleum adj ether) not vinegar and (binder or resin) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti. and "501".clas.	US-PGPUB; USPAT	OR	ON	2007/10/16 11:24
S36	14	(US-3865713-\$ or US- 3915925-\$ or US- 5262043-\$ or US- 3978906-\$ or US- 3989533-\$ or US- 4102694-\$ or US- 4119473-\$ or US- 5429781-\$ or US- 5238986-\$ or US- 4946805-\$ or US- 4229221-\$ or US- 4375518-\$ or US- 4220474-\$ or US- 5523133-\$).did.	USPAT	OR	ON	2007/10/16 11:43
S37	0	S36 with water	USPAT	OR	ON	2007/10/16 11:43
S38	0	S36 SAME water	USPAT	OR	ON	2007/10/16 11:43
S39	0	S36 and naphtha SAME water	USPAT	OR	ON	2007/10/16 11:43
S40	9	S36 and water	USPAT	OR	ON	2007/10/16 13:43

S41	27	refractory and (naphthenic or naphtha or naphthenic or naphtha white adj spirit ligroin petroleum adj ether) not vinegar and (binder or resin).ti. not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti.	US-PGPUB; USPAT	OR	ON	2007/10/16 11:52
S42	376	refractory and (anthracene) not vinegar and (binder or resin or pitch) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti.	US-PGPUB; USPAT	OR	ON	2007/10/16 12:46
S43	13	refractory and (anthracene) not vinegar and (binder or resin or pitch) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti. and (benzo["a"]\$ or benzopyrene or benzo adj pyrene)	US-PGPUB; USPAT	OR	ON	2007/10/16 12:51
S44	17	refractory and (anthracene) not vinegar and (binder or resin or pitch) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti. and (benzo["a"]\$ or benzopyrene or benzo adj pyrene CARCINOGENIC)	US-PGPUB; USPAT	OR	ON	2007/10/16 12:59

S45	62	refractory and (anthracene) not vinegar and (binder or resin or pitch) not (lubricant lubricat\$ hydrocrack\$ catalys\$ treatment processing hydroprocess \$ conversion sieve dehydro\$ photosen\$).ti. and (benzo["a"]\$ or benzopyrene or benzo adj pyrene CARCINOGENIC carcinogen mutan\$)	US-PGPUB; USPAT	OR	ON	2007/10/16 13:00
S47	10	"3,285,760"	US-PGPUB; USPAT	OR	ON	2007/10/16 13:31
S48	4	"3,285,760" and anthracene	US-PGPUB; USPAT	OR	ON	2007/10/16 13:32
S49	6	"3,285,760" and anthracene	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/16 13:32
S50	13	S36 and (naphthenic or naphtha or naphthenic or naptha white adj spirit ligroin petroleum adj ether)	USPAT	OR	ON	2007/10/16 13:43
S51	3	US-3753647-\$.DID. OR US-3899450-\$.DID. OR US-3960755-\$.DID.	US-PGPUB; USPAT	OR	ON	2007/10/23 11:27
S52	467	501/99.ccls.	US-PGPUB; USPAT	OR	ON	2007/10/23 13:13
S53	370	501/99.ccls. not fiber	US-PGPUB; USPAT	OR	ON	2007/10/23 13:14
S54	370	501/99.ccls. not (fiber fibre)	US-PGPUB; USPAT	OR	ON	2007/10/23 13:14
S55	65	501/99.ccls. not (fiber fibre) and (coking or coke)	US-PGPUB; USPAT	OR	ON	2007/10/23 13:17
S56	4	501/99.ccls. not (fiber fibre) and (coking or coke) adj value	US-PGPUB; USPAT	OR	ON	2007/10/23 13:18
S57	694	501/99.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/23 13:20
S58	6	US-3285760-\$.DID. OR US-3415667-\$.DID. OR US-4071593-\$.DID. OR US-5262043-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/23 13:25



S59	4067	coal adj tar adj pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 10:33
S60	1248	coal adj tar adj pitch and dissolved	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 10:35
S61	350	coal adj tar adj pitch and dissolved same oil	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 10:35
S62	15	"4369171"	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 10:50
S63	36973	anthracene oil and coal adj tar adj pitch and refractory	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 11:05
S64	37219	anthracene oil and coal adj tar adj pitch and refractory	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 11:05
S65	28	anthracene adj oil and coal adj tar adj pitch and refractory	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 11:06
S66	58	anthracene adj oil and pitch and refractory	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 11:18
S67	536	(anthracene heavy) adj oil and pitch and refractory	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 11:34
S68	346	(anthracene heavy) adj oil and pitch and refractory not vinegar	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 11:34
S69	13	"3,285,760"	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 11:50
S70	76	anthracene near2 pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 13:16
S71	16	anthracene near2 pitch and refractory	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 13:16
S72	11	("3318801"   "3355377"   "3540901").PN. OR ("4009308").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 13:23
S73	14	"4102694"	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 13:35

S74	57	(anthracene heavy) adj oil and pitch and refractory not vinegar and (mold molded compaction compacted rammed)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/24 13:37
S75	4	("3285760").URPN.	USPAT	OR	ON	2009/09/24 13:38
S76	0	("5866490").URPN.	USPAT	OR	ON	2009/09/24 13:38
S77	2	"4079032"	USPAT	OR	ON	2009/09/24 14:11

**9/ 25/ 2009 2:35:12 PM**

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